STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
A PETITION OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR A DECLARATORY RULING ON THE NEED TO OBTAIN A SITING COUNCIL CERTIFICATE FOR THE INSTALLATION OF A ROOF-TOP WIRELESS TELECOMMUNICATIONS FACILITY AT 36 ALBANY TURNPIKE, SIMSBURY, CONNECTICUT	:	PETITION NO. ____
	:	DECEMBER 23, 2015

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies ("R.C.S.A."), Cellco Partnership d/b/a Verizon Wireless ("Cellco") hereby petitions the Connecticut Siting Council (the "Council") for a declaratory ruling ("Petition") that no Certificate of Environmental Compatibility and Public Need ("Certificate") is required under Section 16-50k(a) of the Connecticut General Statutes ("C.G.S.") to install a new telecommunications tower on the roof of a commercial (car dealership) building at 36 Albany Turnpike in Simsbury, Connecticut (the "Property"). The Property is owned by Hoffman Enterprises Ltd. Partnership. Cellco has designated this site as its "West Simsbury SC1 Facility".

II. Factual Background

The Property is a 21.06-acre parcel in Simsbury's B-3 (Business) zone. The Property is surrounded by commercial uses along Albany Turnpike and residential uses to the east, along Bushy Hill Road. *See* Attachment 1 – Site Vicinity and Site Schematic Maps (Aerial

Photograph).

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Simsbury and throughout the State of Connecticut. Initially, the proposed West Simsbury SC1 Facility described above will provide wireless service in Cellco's 2100 MHz frequency range only.

III. Proposed West Simsbury SC1 Facility

The proposed West Simsbury SC1 Facility would consist of a small tower attached to the inside of an existing mechanical equipment screen wall on the roof of the building on the Property. The tower will support a single canister antenna (Model No. NH180QS-DS-F0M) and a remote radio head ("RRH") (Model No. RRH2x60-AWS). The tower and antenna will extend to a height of approximately 45.3' above ground level, approximately 4'-5" above an existing screen wall on the building (9.6 feet above the building roof). Equipment associated with the West Simsbury SC1 Facility will be located on a 8' by 8' concrete pad located on the ground, on the north side of the building. Antenna cables will extend from the equipment cabinet along the exterior wall of the building and then across the roof then the roof-mounted tower. Power and telephone service to the West Simsbury SC1 Facility will extend from existing service on the Property. (*See* Cellco's Project Plans included in Attachment 2). Specifications for the West Simsbury SC1 Facility antenna and RRH are included in Attachment 3.

IV. Discussion

A. The Proposed Facility Modifications Will Not Have A Substantial Adverse Environmental Effect

The Public Utility Environmental Standards Act (the "Act"), C.G.S. § 16-50g et seq., provides for the orderly and environmentally compatible development of telecommunications towers in the state to avoid "a significant impact on the environment and ecology of the State of

Connecticut." C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers "that may, as determined by the council, have a substantial adverse environmental effect". C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the installation of a tower on the roof of the building supporting a single canister antenna and RRH and the placement of associated radio equipment cabinets on the ground along the north side of the building, will not involve a significant alteration in the physical and environmental characteristics of the Property.

2. Visual Effects

The installation of a small tower, antenna and RRH on the roof of the building would have minimal visual effects on the Property and the surrounding area. (*See* Limited Visual Assessment and Photo-Simulations ("Visual Assessment") included in Attachment 4). As concluded in the Visual Assessment, the visibility of the proposed roof-top tower and antenna described above is limited to locations on the southern portions of the Property within approximately 500 feet of the building. Overall, the proposed wireless facility will have little, if any, impacts on existing views in the area.

3. FCC Compliance

Radio frequency ("RF") emissions from the proposed installation will be well below the standards adopted by the Federal Communications Commission ("FCC"). Included in Attachment 5 is a General Power Density table, which demonstrates that Cellco's West Simsbury SC1 Facility will operate well within the FCC safety standard (14.93% of the Standard).

4. FAA Summary Report

Included in Attachment 6 is a Federal Airways & Airspace Summary Report (the "FAA Report") verifying that the tower and antenna on the roof of the building at the Property would not constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

B. Notice to the Town, Property Owner and Abutting Landowners

On December 23, 2015, a copy of this Petition was sent to Simsbury's First Selectman Lisa L. Heavner and to Hoffman Enterprises Ltd. Partnership, the owner of the Property. Copies of this Petition were also sent to Leslee Hill, First Selectman for the Town of Canton and Brandon Robertson, Town Manager for the Town of Avon, two Towns located within 2,500 feet of the proposed facility. Copies of the letters sent to these public officials and the adjoining Property owner are included in Attachment 7. A copy of Cellco's Petition was also sent to the owners of land that abuts the Property. A sample abutter's letter, and the list of those abutting landowners who were sent notice of the filing of the Petition is included in Attachment 8.

V. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of an approximately 9.6 foot tall tower supporting a single canister antenna and associated equipment on the roof of the building and the installation of ground-mounted equipment cabinets will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

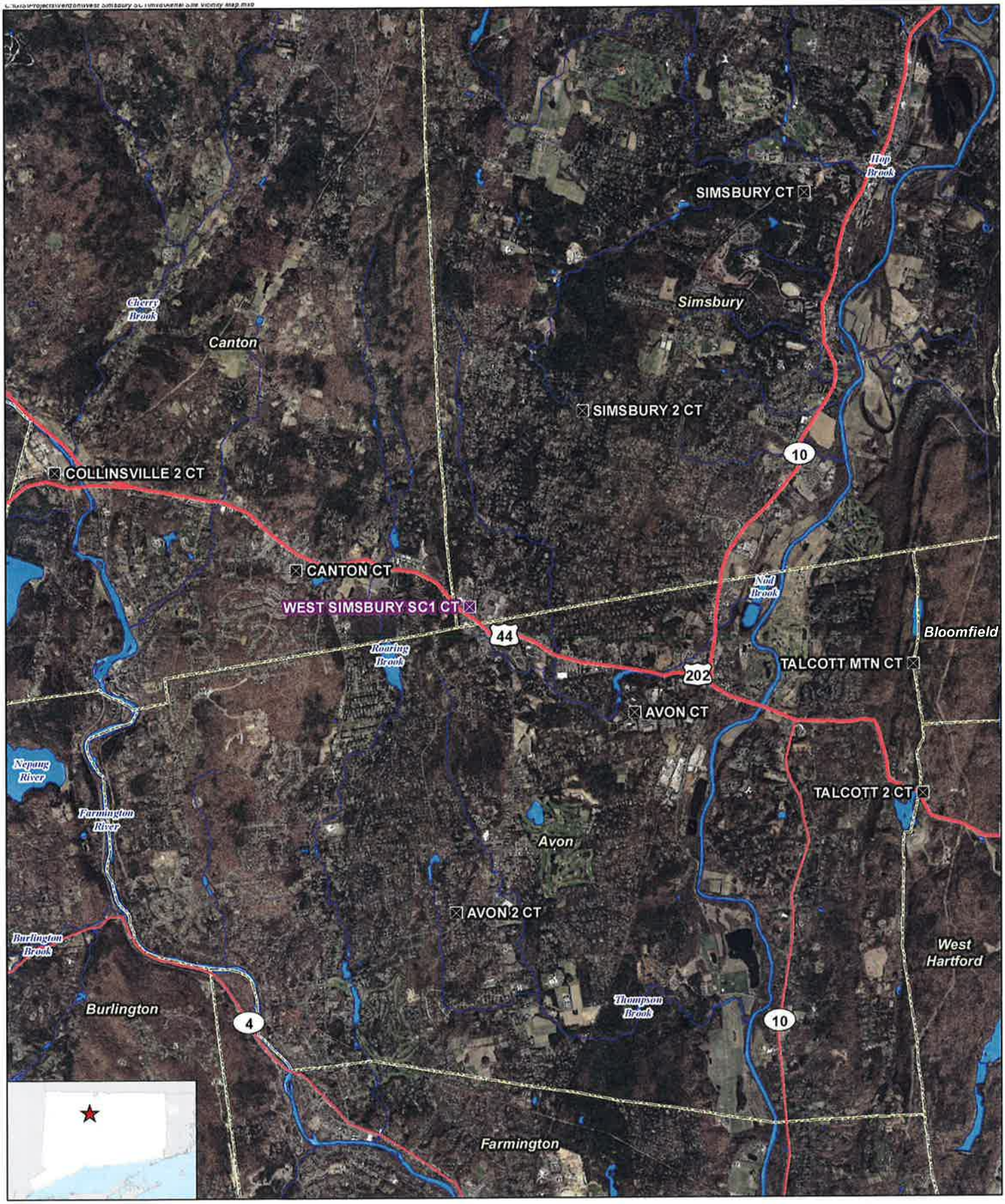
Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

By _____

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



Legend

- Proposed Verizon Small Cell Facility
- Surrounding Verizon Wireless Facilities
- Municipal Boundary
- Watercourse
- Waterbody
- Major Road

Site Vicinity Map

Proposed Small Cell Installation
West Simsbury SC1 CT
36 Albany Turnpike
West Simsbury, Connecticut

verizon

ALL-POINTS TECHNOLOGY CORPORATION

N
W E
S

5,500 2,750 0 5,500 Feet

Base Map Source: 2012 Aerial Photograph (CTECO)
Map Scale: 1 inch = 5,500 feet
Map Date: November 2015

Legend

- Subject Property
- Proposed 8'x8' Equipment Lease Area
- Approximate Parcel Boundary (CTDEEP GIS)

Site Schematic

Proposed Small Cell Installation
West Simsbury SC1 CT
36 Albany Turnpike
West Simsbury, Connecticut

verizon

N
W E
S

150 75 0 150
Feet

Map Notes:
Base Map Source: ESRI World Imagery, NAIP 7/17/2014
Map Scale: 1 inch = 150 feet
Map Date: December 2015

ALL-POINTS TECHNOLOGY CORPORATION

ATTACHMENT 2

Cellco Partnership

d.b.a. verizon wireless

WIRELESS COMMUNICATIONS FACILITY

WEST SIMSBURY SC1
36 ALBANY TURNPIKE
WEST SIMSBURY, CT 06092

SITE DIRECTIONS

FROM: 99 EAST RIVER DRIVE
EAST HARTFORD, CONNECTICUT

TO: 36 ALBANY TURNPIKE
WEST SIMSBURY, CONNECTICUT

1. Head northeast on E River Dr toward Darlin St.	0.3 mi
2. Turn left to stay on E River Dr	400 ft
3. Take first left onto Connecticut Blvd	0.1 mi
4. Merge onto I-84 W	0.4 mi
5. Take exit 50 towards I-91S	0.2 mi
6. Stay straight to go onto Morgan St	0.1 mi
7. Turn slight right onto Main St. Continue to follow US-44 W Destination will be on the right	11.3 mi

GENERAL NOTES

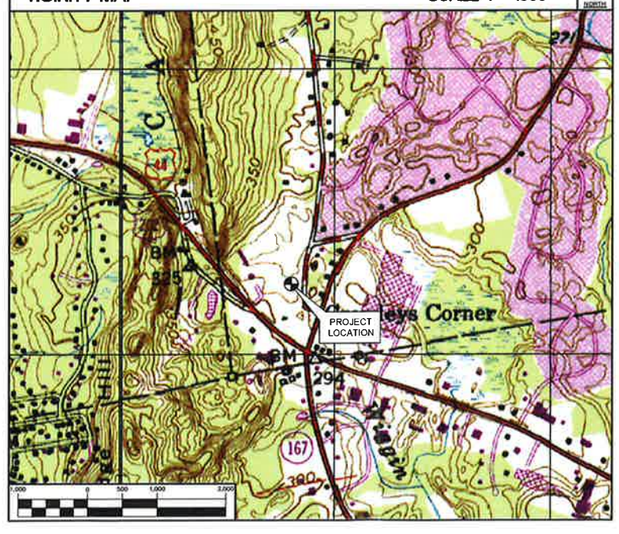
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELLCO PARTNERSHIP.

PROJECT SCOPE

1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A TOTAL OF (1) ANTENNA, (1) REMOTE RADIO HEAD, AND ASSOCIATED APPURTENANCES MOUNTED TO EXISTING SCREEN WALL FRAMING ATOP OF SUBJECT BUILDING AT CENTERLINE ELEVATION OF ±44.1'.
2. THE INSTALLATION OF A PROPOSED CELLCO PARTNERSHIP EQUIPMENT CABINET AT GRADE WITHIN THE 8'x8' EQUIPMENT LEASE AREA.
3. POWER & TELCO UTILITIES SHALL BE ROUTED FROM EXISTING DEMARCS WITHIN OR ADJACENT TO THE SUBJECT BUILDING. FINAL UTILITY DEMARC LOCATIONS AND ROUTING TO BE DETERMINED DURING CONSTRUCTION DOCUMENT PHASE OF THE PROJECT, AND WILL BE COORDINATED WITH BUILDING OWNER AND LOCAL UTILITY COMPANY REQUIREMENTS.
4. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

SITE NAME:	WEST SIMSBURY SC1
SITE ADDRESS:	36 ALBANY TURNPIKE WEST SIMSBURY, CT 06092
CELLCO PARTNERSHIP/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
VERIZON SITE ACQUISITION CONTACT:	STEVE SCHADLER CELLCO PARTNERSHIP (508) 887-0357
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE LLP (860) 275-8345
SITE COORDINATES:	LATITUDE: 41°-49'-06.815"N LONGITUDE: 72°-52'-05.202"W GROUND ELEVATION: ±286.2' A.M.S.L. COORDINATES AND GROUND ELEVATION REFERENCED FROM FAA 1-A SURVEY CERTIFICATION AS PREPARED FOR VERIZON WIRELESS, BY MARTINEZ COUCH AND ASSOCIATES L.L.C., DATED MAY 28, 2015.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
C-1	ABUTTERS MAP	1
C-2	ROOF PLAN, ELEVATION AND ANTENNA CONFIG.	1

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	12/15/15	JTD	DMD	ISSUED FOR CSC
0	11/19/15	JTD	DMD	ISSUED FOR CSC-CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. verizon wireless

CENTEK engineering
Centered on Solutions™
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

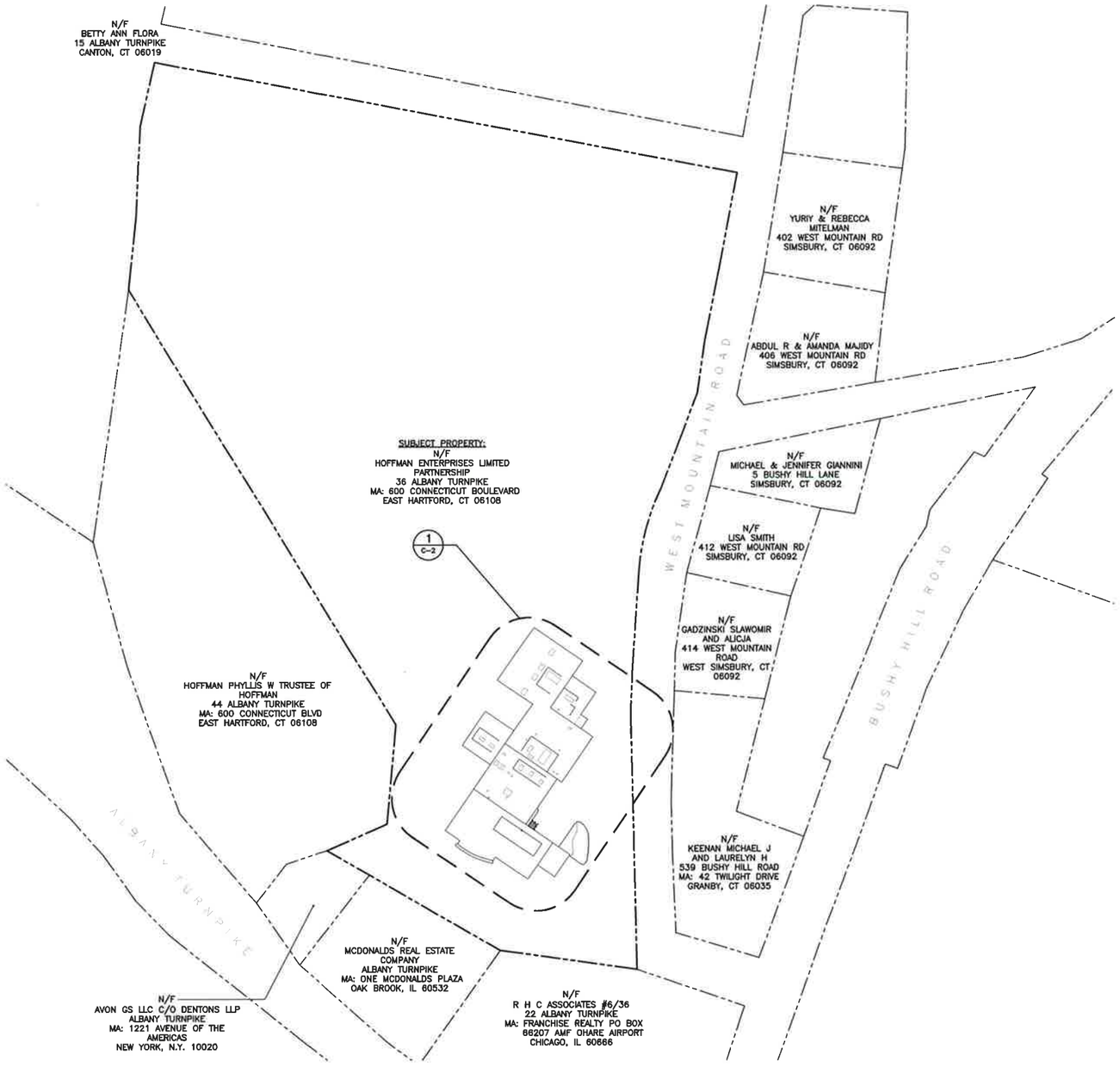
Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
WEST SIMSBURY SC1
36 ALBANY TURNPIKE
WEST SIMSBURY, CT 06092

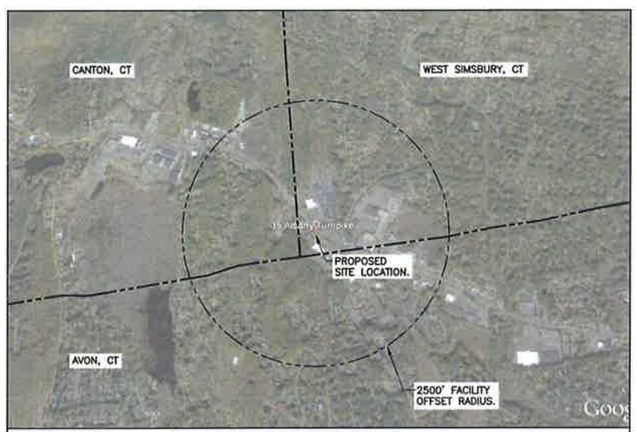
DATE: 11/17/15
SCALE: AS NOTED
JOB NO. 15102.000

TITLE SHEET

T-1

Sheet No. 1 of 3





MUNICIPALITY NOTIFICATION LIMIT MAP

1 C-1 ABUTTERS MAP
SCALE: 1" = 80'

APPROXIMATE NORTH

GRAPHIC SCALE
80 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

MAP REFERENCE NOTE:

PROPERTY LINES AND PROPERTY OWNERSHIP INFORMATION SHOWN HEREIN ARE REFERENCED FROM THE TOWN OF WEST SIMSBURY ASSESSORS MAPPING AND ASSESSORS DATABASE.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	12/15/15	JTD	DMD	ISSUED FOR CSC
0	11/19/15	JTD	DMD	ISSUED FOR CSC-CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. verizonwireless

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY

WEST SIMSBURY SC1

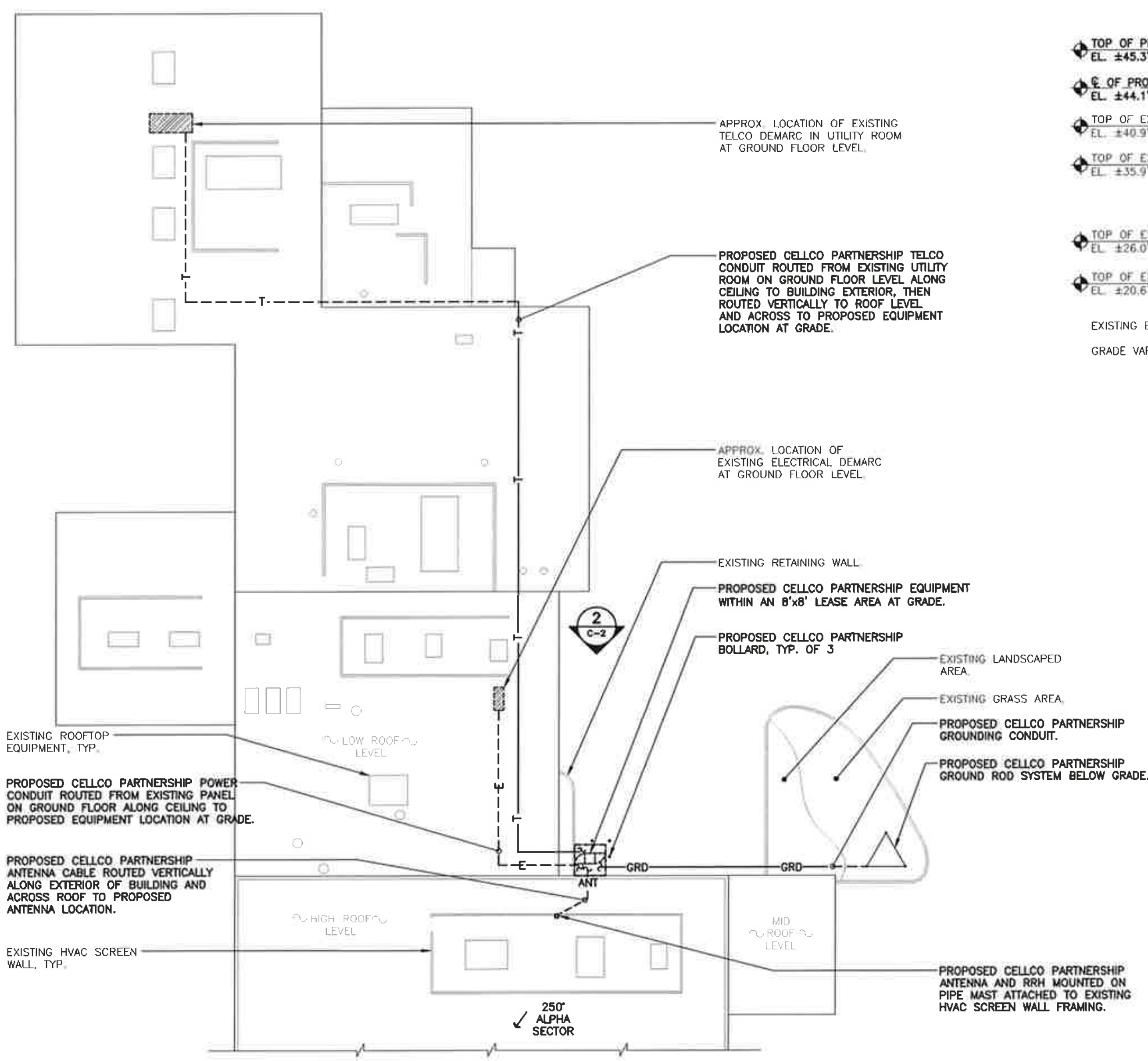
36 ALBANY TURNPIKE
WEST SIMSBURY, CT 06092

DATE: 11/17/15
SCALE: AS NOTED
JOB NO. 15102.000

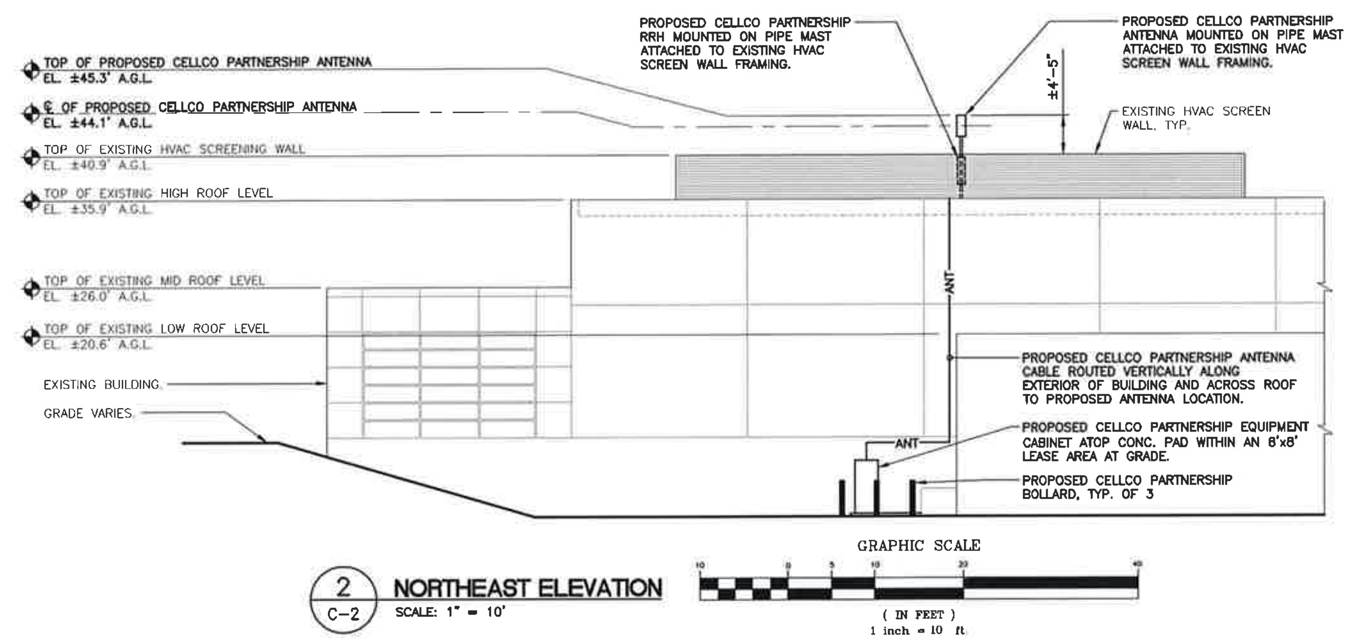
ABUTTERS MAP

C-1

Sheet No. 2 of 3

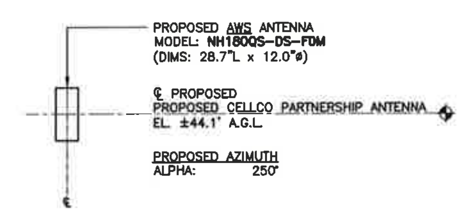


1 C-2 **ROOF/PARTIAL SITE PLAN**
SCALE: 1" = 20'



2 C-2 **NORTHEAST ELEVATION**
SCALE: 1" = 10'

HEIGHTS SHOWN HEREIN ARE REFERENCED FROM FAA 1-A SURVEY CERTIFICATION AS PREPARED FOR VERIZON WIRELESS, BY MARTINEZ COUCH AND ASSOCIATES L.L.C., DATED MAY 28, 2015.



RRH BOX MOUNTING NOTE:

- AWS RRH (MODEL: ALU RRH2x60-AWS (DIMS: 36.7"L x 10.6"W x 5.8"D) (TYP. OF 1)

ANTENNA AND RRH MOUNTED ON PIPE MAST ATTACHED TO BACK SIDE OF EXISTING HVAC SCREEN WALL FRAMING ATOP SUBJECT BUILDING.

3 C-2 **TYP. ANTENNA MOUNTING CONFIGURATION**
NOT TO SCALE

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	12/15/15	JTD	DMD	ISSUED FOR CSC
0	11/19/15	JTD	DMD	ISSUED FOR CSC-CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership d.b.a. verizon wireless

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
WEST SIMSBURY SC1
36 ALBANY TURNPIKE
WEST SIMSBURY, CT 06092

DATE: 11/17/15
SCALE: AS NOTED
JOB NO. 15102.000

ROOF PLAN, ELEVATION AND ANTENNA CONFIG.

C-2

Sheet No. 3 of 3

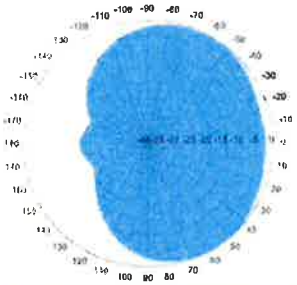
ATTACHMENT 3

COMMSCOPE®

verizonwireless

Metro Cell Antennas with Internal Diplexer and GPS Antenna

Dualband Half-Omni (180°), Metro Cell Antenna



ELECTRICAL SPECIFICATIONS										
Operating Frequency Range	698 - 896 and 1710 - 2170 MHz					698 - 896 and 1710 - 2170 MHz				
Frequency Bands, MHz	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Gain, dBi	6.3	7.3	10.0	10.2	10.5	3.3	4.3	5.9	6.0	6.3
Beamwidth, Horizontal, degrees	180	180	180	180	180	180	180	180	180	180
Beamwidth, Vertical, degrees	30.0	24.0	16.0	15.0	14.0	60.0	55.0	32.5	30.0	28.5
USLS, dB	12	12	14	13	13	–	–	14	12	11
Beam Tilt, degrees	0	0	0–16	0–16	0–16	0	0	0	0	0
Isolation, dB	25	25	25	25	25	25	25	25	25	25
VSWR (Return Loss, dB)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	250	250	250	250	250	250	250

MECHANICAL SPECIFICATIONS		
Connnector Interface	7-16 DIN Female	7-16 DIN Female
Connector Quantity, Location	2, Bottom	2, Bottom
GPS Connnector Interface	4.1/9.5 DIN Female	4.1/9.5 DIN Female
GPS Connector Quantity, Location	1, Bottom	1, Bottom
Length, mm (inch)	730 (28.7)	360 (14.2)
Outer Diameter, mm (inch)	305 (12.0)	305 (12.0)
Wind Speed, maximum, km/h (mph)	241.4 (150)	241.4 (150)
Net Weight, kg (lb)	17.0 (37.5)	10.0 (22.0)

AVAILABILITY		
Expected Ready Date for Manufacturing	April 2014	June 2014

ALCATEL-LUCENT
WIRELESS PRODUCT DATASHEET
RRH2X60-AWS FOR BAND 4 APPLICATIONS

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.

A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information.

SUPERIOR RF PERFORMANCE

The Alcatel-Lucent RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

OPTIMIZED TCO

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

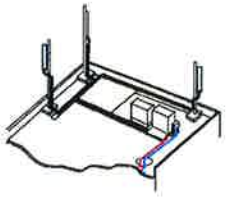
EASY INSTALLATION

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

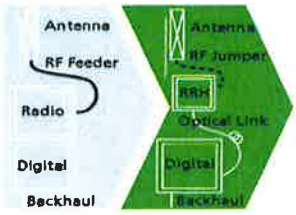
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

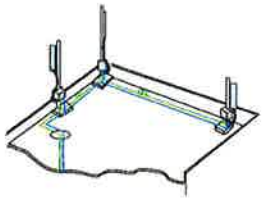
Installation can easily be done by a single person as the Alcatel–Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

BENEFITS

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and silent solutions, with minimum impact on the neighborhood, which ease the deployment
- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

TECHNICAL SPECIFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisychaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

Alcatel·Lucent

AT THE SPEED OF IDEAS™

ATTACHMENT 4

Limited Visual Assessment and Photo-Simulations

WEST SIMSBURY SC1
36 ALBANY TURNPIKE
WEST SIMSBURY, CT 06092

Prepared in December 2015 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06141

Prepared for Verizon Wireless

ALL-POINTS
TECHNOLOGY CORPORATION

LIMITED VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a limited visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a small cell wireless telecommunications Facility at 36 Albany Turnpike (CT Route 44) in West Simsbury, Connecticut (the "Property").

Project Setting

The Property is developed with a large commercial complex consisting of multi-automotive sales and service dealerships and is located in a mixed business and residential area north of the intersection formed by Routes 44 and 167, immediately west of Mountain Road. A few residential properties lie east of Mountain Road and north/south of Bushy Lane. Commercial properties are located to the west, south and farther east along Route 167. Areas to north are undeveloped and heavily wooded.

The proposed Facility would include the installation of a single antenna, remote radio head and distribution box all mounted on a pipe-mast to be affixed to the interior portion of an existing screening wall atop the building roof. Electrical and telco connections would be routed from interior locations to an 8-foot by 8-foot ground lease equipment area adjacent to the southeast exterior wall of the building. A free-standing cabinet within the equipment area would interconnect with the antenna via cable trays routed up the exterior wall of the building and then along the roof. Three concrete bollards would provide protection for the cabinet.

A 5-foot tall screening wall extends above the top of the roof. The proposed installation would extend to a height of approximately 5 feet above the screening wall; this would result in a small portion of the pipe mast, antenna and associated appurtenances being visible from some locations on the east side of the Property.

Methodology

On July 22, 2015, APT personnel conducted a field reconnaissance to photo-document existing conditions. Five (5) nearby locations were selected to depict a representation of existing and proposed conditions. At each photo location, the geographic coordinates of the camera's position were logged using global positioning system ("GPS") technology. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter ("mm") zoom lens, with the lens set to 50 mm.

> *"The lens that most closely approximates the view of the unaided human eye is known as the normal focal-length lens. For the 35 mm camera format, which gives a 24x36 mm image, the normal focal length is about 50 mm.[1]"*

1 Warren, Bruce. Photography, West Publishing Company, Eagan, MN, c. 1993, (page 70).

Three-dimensional computer models were developed for the building and proposed small cell components from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was scaled to the correct location and height, relative to the existing structure and surrounding area. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format[2]. A photolog map and copies of the existing conditions and photo-simulations are attached.

Conclusions

The visibility of the proposed antenna installation would be limited to locations on the southern portion of the Property, within approximately 500 feet east and west of the building. The supporting ground equipment's location limits views to paved circulation areas immediately to the northeast. Based on the results of this assessment, it is our opinion that the proposed installation of the Verizon Wireless small cell Facility would have little, if any impact on existing views in the general area beyond the Property.

[2] When viewing in this format size, we believe it is important to provide the largest representational image while maintaining an accurate relation of sizes between objects within the frame of the photograph and depicting the subject in a way similar to what an observer might see, to the greatest extent possible.

ATTACHMENTS

PHOTO LOG

Base Map Source: 2012 Aerial Photograph (CTECO)

Legend

Site Photo Locations

150 75 0 150 Feet

1 inch = 150 feet

ALL-POINTS

verizon

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	**HOST PROPERTY**	**SOUTHWEST**	**+/- 209 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	**HOST PROPERTY**	**SOUTHWEST**	**+/- 209 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
2	**HOST PROPERTY**	**SOUTHWEST**	**+/- 128 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
2	**HOST PROPERTY**	**SOUTHWEST**	**+/- 128 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
3	**HOST PROPERTY**	**NORTHWEST**	**+/- 119 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
4	**HOST PROPERTY**	**NORTHWEST**	**+/- 181 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
5	**ALBANY TURNPIKE**	**EAST**	**+/- 431 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
5	**ALBANY TURNPIKE**	**EAST**	**+/- 431 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

ATTACHMENT 5

Site Name: West Simsbury SC 1, CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissable Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW AWS	2145	1	815	815	44.3	0.1493	1.0	14.93%

Total Percentage of Maximum Permissible Exposure 14.93%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

ATTACHMENT 6

WEST_SIMSBURY_SC_1_CT_AIRSPACE.txt

****
* Federal Airways & Airspace *
* Summary Report: Alteration Of Existing Structure *
* Non-Antenna Structure *
****

Airspace User: Mark Brauer

File: WEST_SIMSBURY_SC_1_CT

Location: Hartford, CT

Latitude: 41°-49'-6.82" Longitude: 72°-52'-5.20"

SITE ELEVATION AMSL.....287 ft.
STRUCTURE HEIGHT.....46 ft.
OVERALL HEIGHT AMSL.....333 ft.

NOTICE CRITERIA
FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for 4B9
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for 4B8
FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required
NNR = Notice Not Required
PNR = Possible Notice Required (depends upon actual IFR procedure)
For new construction review Air Navigation Facilities at bottom of this report.

If the proposed construction is an alteration to an existing structure, notice requirements may be superceded by the item exemptions listed below.

The location and analysis were based upon an existing structure. However, no existing aeronautical study number was identified. If the 'existing' structure penetrates an obstruction surface defined by CFR 77.17, 77.19, 77.21 or 77.23 (see below) it is strongly recommended the FAA be notified of the 'existing' structure to determine obstruction marking or lighting requirements. It is not uncommon for the FAA to issue a Determination of No Hazard (DNH) for an existing structure and modify the airspace to accommodate the structure, should that be required. If the FAA issues a DNH enter the aeronautical study number (ASN) in the space provided on the Airspace Analysis Window Form and re-run Airspace.

No frequencies were identified in this alteration are included in the FAA's Co-Location Policy published in the Federal Register November 15, 2007. Therefore, application of the Co-Location Policy notice exemption rule can not be applied.

OBSTRUCTION STANDARDS
FAR 77.17(a)(1): DNE 499 ft AGL
FAR 77.17(a)(2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: 4B9: SIMSBURY
Type: A RD: 42344.81 RE: 177.1

FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): Does Not Apply.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: 4B8: ROBERTSON FIELD
Type: A RD: 45275.16 RE: 201.6
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Greater Than 5.99 NM.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
FAR 77.17(a)(3) Departure Surface Criteria (40:1)
DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
FAR 77.17(a)(4): DNE - No Airway Found

PRIVATE LANDING FACILITIES

FACIL IDENT	TYP	NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
23CT	HEL	BLANCHETTE	235.33	3.45	-167	
No Impact to Private Landing Facility Structure 0 ft below heliport.						
CT73	HEL	SOUTH MEADOWS	176.36	5.74	+133	
No Impact to Private Landing Facility Structure is beyond notice limit by 29877 feet.						

AIR NAVIGATION ELECTRONIC FACILITIES

FAC IDNT	TYPE	ST AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND APCH BEAR ANGLE
BDL	RADAR	ON		49.08	66843	+97	CT	BRADLEY INTL	.08
No Impact. Alteration does not require Notice based upon EMI. The studied location is within 20 NM of a Radar facility. The calculated Radar Line-Of-Sight (LOS) distance is: 41 NM. This location and height is within the Radar Line-Of-Sight.									
HFD	VOR/DME	R	114.9	126.56	108838	-516	CT	HARTFORD	-.27
BAF	VORTAC	R	113.0	18.22	131771	+66	MA	BARNES	.03
CEF	VORTAC	R	114.0	33.81	166437	+92	MA	WESTOVER	.03
CTR	VOR/DME	I	115.1	352.73	173681	-1267	MA	CHESTER	-.42
MAD	VOR/DME	R	110.4	165.39	190111	+113	CT	MADISON	.03
PWL	VOR/DME	I	114.3	264.67	200520	-917	NY	PAWLING	-.26
HVN	VOR/DME	R	109.8	181.31	202741	+327	CT	NEW HAVEN	.09

QHA RADAR ARSR Y 1320. 353.57 240644 -1820 MA West Cummington -.43

CFR Title 47, §1.30000-§1.30004
AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.
Movement Method Proof as specified in §73.151(c) is not required.
Please review 'AM Station Report' for details.

Nearest AM Station: WCCC @ 6416 meters.

Airspace® Summary Version 15.11.404

11-20-2015
14:18:21

ATTACHMENT 7

Robinson + Cole

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

December 23, 2015

Via Certificate of Mailing

Lisa L. Heavner, First Selectman
Town of Simsbury
933 Hopmeadow Street
Simsbury, CT 06070

Re: **Proposed Installation of a Roof-Top Wireless Telecommunications Facility at 36 Albany Turnpike, Simsbury, Connecticut**

Dear Ms. Heavner:

This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a new telecommunications facility on the roof of the building at 36 Albany Turnpike in Simsbury, Connecticut (the "Property"). The facility will consist of a small tower attached to the roof of the building in the southerly portion of the Property. The tower will support a single canister antenna and remote radio head. The top of the canister antenna will extend approximately 4'-5" above the existing screen wall on the roof of the building to a height of approximately 45.3 feet above ground level. Equipment associated with the facility will be located on an 8' x 8' concrete pad on the ground on the north side of the building.

Council guidelines require a copy of the Petition be sent to the Chief Executive Officer of the municipality where the facility is to be located and any adjacent municipality within 2,500 feet of the facility. Landowners whose property abuts the Property were also sent notice of this filing along with a copy of the Petition.

14385207-v1

Robinson+Cole

Please contact me if you have any questions regarding this proposal.

Sincerely,

Kenneth C. Baldwin

Attachment

Robinson + Cole

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

December 23, 2015

Via Certificate of Mailing

Leslee Hill, First Selectman
Canton Town Hall
P.O. Box 168
4 Market Street
Collinsville, CT 06022

Re: **Proposed Installation of a Roof-Top Wireless Telecommunications Facility at 36 Albany Turnpike, Simsbury, Connecticut**

Dear Ms. Hill:

This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a new telecommunications facility on the roof of the building at 36 Albany Turnpike in Simsbury, Connecticut (the "Property"). The facility will consist of a small tower attached to the roof of the building in the southerly portion of the Property. The tower will support a single canister antenna and remote radio head. The top of the canister antenna will extend approximately 4'-5" above the existing screen wall on the roof of the building to a height of approximately 45.3 feet above ground level. Equipment associated with the facility will be located on an 8' x 8' concrete pad on the ground on the north side of the building.

Council guidelines require a copy of the Petition be sent to the Chief Executive Officer of the municipality where the facility is to be located and any adjacent municipality within 2,500 feet of the facility. Landowners whose property abuts the Property were also sent notice of this filing along with a copy of the Petition.

14385984-v1

Robinson+Cole

Please contact me if you have any questions regarding this proposal.

Sincerely,

Kenneth C. Baldwin

Attachment

Robinson + Cole

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

December 23, 2015

Via Certificate of Mailing

Brandon Robertson, Town Manager
Avon Town Hall
60 West Main Street
Avon, CT 06001

Re: **Proposed Installation of a Roof-Top Wireless Telecommunications Facility at 36 Albany Turnpike, Simsbury, Connecticut**

Dear Mr. Robertson:

This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a new telecommunications facility on the roof of the building at 36 Albany Turnpike in Simsbury, Connecticut (the "Property"). The facility will consist of a small tower attached to the roof of the building in the southerly portion of the Property. The tower will support a single canister antenna and remote radio head. The top of the canister antenna will extend approximately 4'-5" above the existing screen wall on the roof of the building to a height of approximately 45.3 feet above ground level. Equipment associated with the facility will be located on an 8' x 8' concrete pad on the ground on the north side of the building.

Council guidelines require a copy of the Petition be sent to the Chief Executive Officer of the municipality where the facility is to be located and any adjacent municipality within 2,500 feet of the facility. Landowners whose property abuts the Property were also sent notice of this filing along with a copy of the Petition.

14386025-v1

Please contact me if you have any questions regarding this proposal.

Sincerely,

Kenneth C. Baldwin

Attachment

Robinson + Cole

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

December 23, 2015

Via Certificate of Mailing

Hoffman Enterprises Ltd. Partnership
600 Connecticut Boulevard
East Hartford, CT 06108

Re: **Proposed Installation of a Roof-Top Wireless Telecommunications Facility at 36 Albany Turnpike, Simsbury, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a new telecommunications facility on the roof of the building at 36 Albany Turnpike in Simsbury, Connecticut (the "Property"). The facility will consist of a small tower attached to the roof of the building in the southerly portion of the Property. The tower will support a single canister antenna and remote radio head. The top of the canister antenna will extend approximately 4'-5" above the existing screen wall on the roof of the building to a height of approximately 45.3 feet above ground level. Equipment associated with the facility will be located on an 8' x 8' concrete pad on the ground on the north side of the building.

Council guidelines require a copy of the Petition be sent to the Chief Executive Officer of the municipality where the facility is to be located and any adjacent municipality within 2,500 feet of the facility. Landowners whose property abuts the Property were also sent notice of this filing along with a copy of the Petition.

14385752-v1

Please contact me if you have any questions regarding this proposal.

Sincerely,

Kenneth C. Baldwin

Attachment

ATTACHMENT 8

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

December 23, 2015

Via Certificate of Mailing

«Name_and_Address»

Re: **Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a Roof-Top Wireless Telecommunications Facility at 36 Albany Turnpike, Simsbury, Connecticut**

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a new telecommunications facility on the roof of the building at 36 Albany Turnpike in Simsbury, Connecticut (the "Property"). The facility will consist of a small tower attached to the roof of the building in the southerly portion of the Property. The tower will support a single canister antenna and remote radio head. The top of the canister antenna will extend approximately 4'-5" above the existing screen wall on the roof of the building to a height of approximately 45.3 feet above ground level. Equipment associated with the facility will be located on an 8' x 8' concrete pad on the ground on the north side of the building. A copy of Cellco's Petition is attached for your review.

This notice is being sent to you because you are listed on the Town Assessor's records as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council's process for reviewing the Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

Sincerely,

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTERS LIST

36 ALBANY TURNPIKE
SIMSBURY, CONNECTICUT

	Property Address	Owner and Mailing Address
1.	414 West Mountain Road	Slawdmir and Alicja Gadzinski 414 West Mountain Road West Simsbury, CT 06092
2.	539 Bushy Hill Road	Michael J. and Laurelyn H. Keenan 42 Twilight Drive Granby, CT 06035
3.	22 Albany Turnpike	RHC Associates #6/36 Franchise Realty Box 66207 AMF O'Hare Airport Chicago, IL 60666
4.	Albany Turnpike	McDonalds Real Estate Company One McDonalds Plaza Oak Brook, IL 60532
5.	Albany Turnpike	Avon GS LLC c/o Dentons LLP 1221 Avenue of the Americas New York, NY 10020
6.	44 Albany Turnpike	Phyllis W. Hoffman, Trustee of Hoffman Rose Rhea 1990 Family TRS 600 Connecticut Boulevard East Hartford, CT 06108
7.	15 Albany Turnpike	Betty Ann Flora 15 Albany Turnpike Canton, CT 06019
8.	402 West Mountain Road	Yuriy and Rebecca Mitelman 402 West Mountain Road Simsbury, CT 06092
9.	406 West Mountain Road	Abdul R and Amanda Majidy 406 West Mountain Road Simsbury, CT 06092

	Property Address	Owner and Mailing Address
10.	5 Bushy Hill Lane	Michael and Jennifer Giannini 5 Bushy Hill Lane Simsbury, CT 06092
11.	412 West Mountain Road	Lisa Smith 412 West Mountain Road Simsbury, CT 06092